Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

CW/HW#27H: Review

Honors Geometry

Due: Monday, Oct. 18th

**Failure to show all work and write in complete sentences will result in LaSalle!**

The GRE is a standardized test, similar to the ACT, that is an admissions requirement for most graduate schools in the US. How well you score on the GRE is one factor to determine what graduate school you will be able to attend. Pretend that you have graduated from college, and your friend is applying to graduate school, but has not learned geometry since high school! You however, remember everything perfectly from Geometry class back in the good ‘ol year of 2015 and are able to explain these questions to your friend. Some problems may seem simple, but the true test of knowledge is how well you are able to explain these problems to your friend. ***Good luck!***

|  |  |
| --- | --- |
| 1) | Explanation: |
| 2) | Explanation: |
| 3) | Explanation: |
| 4) | Explanation: |
| 5) | Explanation: |
| 6) | Explanation: |

**Blast from the past/ THROW BACK THURSDAY!**   
  
The questions below are review of what we’ve covered since the beginning of the year. Make sure to use your notes/classwork/homework as a resource.

|  |  |
| --- | --- |
| 7)  For the line above, determine if the following lines are parallel, perpendicular, or neither. | I. The line through the points (3,4) and (4,6)    II. The line through the points (1,1) and (2,5)   III. 4x + 2y = 1   IV. 8x – 16y = 10 |
| 7) Use the space below to draw a picture if needed. | a) Suppose the distance from the train stop to your house is 10 blocks, and the distance from the store to your house is 3 blocks. How far is the store from the train stop? Explain.    b) You’re at the store and you’re meeting with a friend. They just got off the train and want to meet halfway, at point M. What is the location of point M? Explain. |
| C:\Users\kramos\Dropbox\Math Materials - KMR\Images\CW26_DistancevsTime.PNG8) You walk to meet your friend. The graph below displays the distance you cover over time.    Distance from home (blocks)    Time (mins) | 1. What is the slope of the line? Include units. 2. What is the equation for this line? |
| 9) Suppose the triangle *HSD* is rotation 90 degrees counterclockwise. What would be the coordinate of *S’’*?  C:\Users\kramos\Dropbox\Math Materials - KMR\Images\CW#23_Rotation.PNG | Explaination: |
| C:\Users\kramos\Dropbox\Math Materials - KMR\Images\CW#23_Pythag.PNG10) Find the missing side length. | Explanation: |